



SEQUENCE LISTING

<110> Richard

<120> METHODS OF MODULATING T LYMPHOCYTE COSTIMULATION

<130> 7853-235-999

<140> 09/823,307

<141> 2001-04-12

<160> 4

<170> PatentIn version 3.0

<210> 1

<211> 2641

<212> DNA

<213> 8F4

<220>

<221> CDS

<222> 68..667

<400> 1

```
cgagagcctg aattcactgt cagctttgaa cactgaacgc gaggactgtt aactgtttct 60
ggcaaac atg aag tca ggc ctc tgg tat ttc ttt ctc ttc tgc ttg cgc 109
      Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg
      1      5      10
att aaa gtt tta aca gga gaa atc aat ggt tct gcc aat tat gag atg 157
Ile Lys Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met
15      20      25      30
ttt ata ttt cac aac gga ggt gta caa att tta tgc aaa tat cct gac 205
Phe Ile Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp
      35      40      45
att gtc cag caa ttt aaa atg cag ttg ctg aaa ggg ggg caa ata ctc 253
Ile Val Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu
      50      55      60
tgc gat ctc act aag aca aaa gga agt gga aac aca gtg tcc att aag 301
Cys Asp Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys
      65      70      75
agt ctg aaa ttc tgc cat tct cag tta tcc aac aac agt gtc tct ttt 349
Ser Leu Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe
      80      85      90
ttt cta tac aac ttg gac cat tct cat gtc aac tat tac ttc tgc aac 397
Phe Leu Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn
      95      100      105      110
cta tca att ttt gat cct cct cct ttt aaa gta act ctt aca gga gga 445
Leu Ser Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly
      115      120      125
tat ttg cat att tat gaa tca caa ctt tgt tgc cag ctg aag ttc tgg 493
Tyr Leu His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp
      130      135      140
tta ccc ata gga tgt gca gcc ttt gtt gta gtc tgc att ttg gga tgc 541
Leu Pro Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys
      145      150      155
ata ctt att tgt tgg ctt aca aaa aag aag tat tca tcc agt gtg cac 589
Ile Leu Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Val His
      160      165      170
gac cct aac ggt gaa tac atg ttc atg aga gca gtg aac aca gcc aaa 637
Asp Pro Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys
      175      180      185      190
```

aaa tct aga ctc aca gat gtg acc cta taa tatggaactc tggcaccag 687
Lys Ser Arg Leu Thr Asp Val Thr Leu

195
gcataagaca cgttgccag ttttctcaa cttgaagtgc aagattctct tatttccggg 747
accacggaga gtctgactta actacataca tcttctgctg gtgttttggt caatctggaa 807
gaatgactgt atcagtoaat ggggatttta acagactgcc ttggtactgc cgagtctct 867
caaaaacaac accctcttgc aaccagcttt ggagaaagcc cagctcctgt gtgctcactg 927
ggagtggaa cctgtctcc acatctgctc cttagcagtc atcagccagt aaaacaaaca 987
catttacaag aaaaatgttt taaagatgcc aggggtactg aatctgcaaa gcaaatgagc 1047
agccaaggac cagcatctgt cgcatttca ctatcatact acctcttctt tctgtaggga 1107
tgagaattcc tcttttaatc agtcaaggga gatgcttcaa agctggagct attttatttc 1167
tgagatgttg atgtgaactg tadattagta catactcagt actctccttc aattgctgaa 1227
ccccagttga ccattttacc aagactttag atgctttctt gtgccctcaa ttttcttttt 1287
aaaaatactt ctacatgact gcttgacagc ccaacagcca ctctcaatag agagctatgt 1347
cttacattct ttcctctgct gctcaatagt ttatatatc tatgcataca tatatacaca 1407
catatgtata taaaattcat aatgaatata tttgcctata ttctccctac aagaatattt 1467
ttgctccaga aagacatgtt cttttctcaa attcagttaa aatggtttac tttgttcaag 1527
ttagtggtag gaaacattgc ccggaattga aagcaaatat attttattat cctattttct 1587
accattatct atgttttcat ggtgctatta attacaagtt tagttctttt tgtagatcat 1647
attaaaattg caaacaatat catctttaat gggccagcat tctcatgggg tagagcagaa 1707
tattcattta gcctgaaagc tgcagttact atagggtgct gtcagactat acccatgggtg 1767
cctctgggct tgacagggtc aaatgggtcc catcagcctg gagcagccct ccagacctgg 1827
gtggaattcc agggttgaga gactccccctg agccagaggg cactagggtat tcttgctccc 1887
agaggctgaa gtcaccctgg gaatcacagt ggtctacctg cattcataat tccaggatct 1947
gtgaagagca catatgtgtc agggcacaaat tccctctcat aaaaaccaca cagcctggaa 2007
attggccctg gcccttcaag atagccttct ttagaatatg atttggttag aaagattctt 2067
aaatatgttg aatatgatta ttcttagctg gaatatattc tctacttctg gtcctgcatgc 2127
ccaaggcttc tgaagcagcc aatgtcgatg caacaacatt tgtaacttta ggtaaaactgg 2187
gattatgttg tagtttaaca ttttgtaact ggtgcttat agtttacaag tgagaccoga 2247
tatgtcatta tgcatactta tattatctta agcatgtgta atgctggatg tgtacagtac 2307
agtactgaac ttgtaatttg aatctagtat ggtgttctgt tttcagctga cttggacaac 2367
ctgactggct ttgcacaggt gttccctgag ttgtttgcag gtttctgtgt gtggggtggg 2427
gtatggggag gagaaccttc atggtggccc acctggcctg gttgtccaag ctgtgcctcg 2487
acacatcttc atccccagca tgggacacct caagatgaat aataattcac aaaatttctg 2547
tgaaatcaaa tccagtttta agaggagcca cttatcaaag agattttaac agtagtaaga 2607
aggcaagaa taaacatttg atattcagca actg 2641

<210> 2
<211> 199
<212> PRT
<213> 8F4

<400> 2
Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg Ile Lys
1 5 10 15
Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile
20 25 30
Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val
35 40 45
Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp
50 55 60
Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu
65 70 75 80
Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
85 90 95

Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser
 100 105 110
 Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu
 115 120 125
 His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro
 130 135 140
 Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu
 145 150 155 160
 Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro
 165 170 175
 Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser
 180 185 190
 Arg Leu Thr Asp Val Thr Leu
 195

<210> 3
 <211> 17
 <212> PRT
 <213> 8F4

<400> 3
 Met Gly Asn Cys Thr Ser Ala Cys Asn Gly Ala Tyr Gly Thr Asn Ala
 1 5 10 15
 Cys

<210> 4
 <211> 17
 <212> PRT
 <213> 8F4

<400> 4
 Met Gly Asn Tyr Thr Asp Ala Cys Asn Gly Ala Tyr Gly Thr Asn Ala
 1 5 10 15
 Cys

C
 corcl'd